

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 56138852  
PUBLICATION DATE : 29-10-81

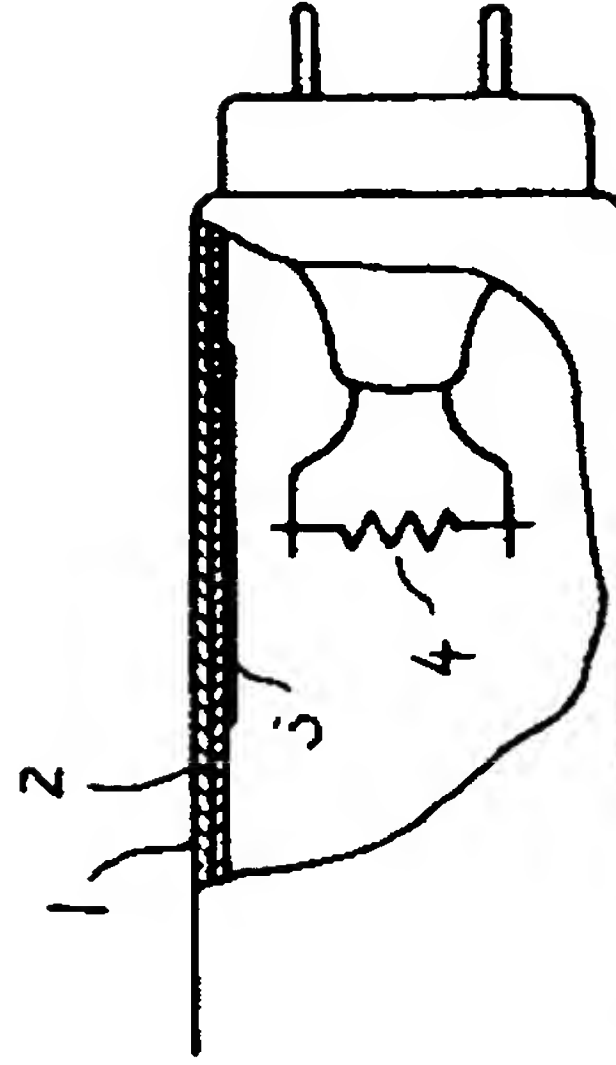
APPLICATION DATE : 31-03-80  
APPLICATION NUMBER : 55041344

APPLICANT : MITSUBISHI ELECTRIC CORP;

INVENTOR : ITO HIROSHI;

INT.CL. : H01J 61/26 H01J 61/35

TITLE : FLUORESCENT LAMP



ABSTRACT : PURPOSE: To prevent coloring of the ends of a fluorescent lamp, during its life time, by providing a fine grain layer made of a borate of an alkaline earth metal over a phosphor layer in the vicinity of the electrode.

CONSTITUTION: A phosphor layer 2 is formed on the inner wall of a glass tube 1. An electrode 4 is coated with an electron-discharging substance. A thin layer 3 made of a fine borate powder of an alkaline earth metal is formed on a part of the phosphor layer 2 which is near the electrode 4. Owing to such a constitution, metal barium or the like, which is scattered from the electrode 4 during the burning of a fluorescent lamp, touches the layer 3 and is oxidized into a white oxide, thus any coloring of the tube 1 being prevented. Besides, the provision of the thin layer 3 prepared from the former fine borate powder on the phosphor layer 3 does not decrease the luminous efficiency of the lamp, since an acid salt of an alkaline earth metal highly reflects both visible rays and ultraviolet rays.

COPYRIGHT: (C)1981,JPO&Japio